Work Ord June-15-12 1:3	er ID 85822 2:04 PM		*858	322*		·				·	Page	1
Item ID: Revision ID: Item Name:	D206-642-541 Replacement Skidtube	1	Accept	*N900	04 0	1100) *	Setup	Start Stop	1/1	S1* S2*	
Start Date: Required Date: Reference:	15/06/2012 Start Qty: 1.00 29/06/2012 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					IN	.J/	
Approvals:	Process Plan: ML J QC:	Date: 12/06/15	Tooling: SPC (Y/N):		ite:	·		Run	Start Stop	_	R1* R2*	
Sequence ID/ Work Center II	Operation D Description	· · · · · · · · · · · · · · · · · · ·	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp	
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D3274	D											
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CHG003

0.00

Photocopy bluefile & type labels per PPP D206-642-541

100

Document Control

DOCUMENT CONTROL

Memo

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W/O:		· · · · · · · · · · · · · · · · · · ·	W	ORK ORDER CH	ANGES					•
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Cat	egory:	NC	R: Yes N	lo DQ /	A:	Date:	
	R	esolution:	Dispositi	on: '	QA	: N/C Clo	sed:		Date: _	
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DATE	STEP	Description of NC		Corrective Action	Section B		Verific	ation	Approval	Approval
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Work Order ID 85822

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85822

June-13-12 1.3	32:04 PM											
Item ID: Revision ID: Item Name:	D206-642-54 Replacement S			Accept	*N90004							S1*
Start Date: Required Date Reference:	15/06/2012	Start Qty: 1.00 Req'd Qty: 1.00	•		Cust Item ID: Customer:				* ^N	Sy [^]		
Approvals:	Process Pla	n:	Date:	Tooling:	Date:		Ru		!/	S1* S2* R1* R2* Insp. Stamp		
	QC:	·	Date:	N9()()()* Setup Start *NS1* Stop *NS2* *1*								
Sequence ID/ Work Center I	D	Operation Description		Run Hours	Tool ID Tool		-	•	•			
110 Skidtubes		Skidtubes Memo		·								
Skidtubes		1- Bend F D3274, cu 2- remove 3- weld fw AR Alu 4- grind fv 5- Cut AF 6-Drill Af 7 -Cleco D Drill 3/16" 8 -Remove batch #	WD end of tube using it fwd end of tube with fwd indexing ridge a fwd cap as per dwg D3; aminum Rod Batch: I end of tube at 170.9 it cap pilot hole using prior tholes as per Dwg inner indexing ridge	g bend prog D3274 FWD and foh saw table setup D3274. s per dwg D3274. Prepare for w 274 and OSI004 Ourface only "as per dwg D3274 and deburn DT8025 d install pilot hole drill Jig DT8 vg D3274 on aft end of skidtube as per D	elding BE12-0 rend. 742A,B,C,D. wg D3274 scribe							
		1- Bend F D3274, cu 2- remove 3- weld fw AR Alu 4- grind fv 5- Cut AF 6-Drill Af 7 -Cleco D Drill 3/16" 8 -Remove batch #	WD end of tube using it fwd end of tube with fwd indexing ridge a fwd cap as per dwg D3; aminum Rod Batch: I end of tube at 170.9 it cap pilot hole using prior tholes as per Dwg inner indexing ridge	g bend prog D3274 FWD and foh saw table setup D3274. s per dwg D3274. Prepare for w 274 and OSI004 Ourface only "as per dwg D3274 and deburn DT8025 d install pilot hole drill Jig DT8 vg D3274 on aft end of skidtube as per D	elding BE12-0 rend. 742A,B,C,D. wg D3274 scribe							

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	Re	esolution:	Disposition	n: <u>'</u>	QA: N/C C	losed:		Date: _	
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QC

116

120

Quality Control

Memo

Chemical Conversion Coat per OSI005 4.1

120 HandFinish

Memo

Hand Finishing

QC10- Inspect visual per QSI004- ground welds

0.00

0.00

Page 3

Insp.

W/O:		*	W	ORK ORDER CHANGE	ES				,
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Date:

Date:

Customer:

Tool ID

Page 4

Work Order ID 85822 June-15-12 1:32:04 PM -D206-642-541 Item ID: Accept *N900040100* Revision ID: Item Name: Replacement Skidtube **Start Date:** 15/06/2012 Start Qty: 1.00 Required Date: 29/06/2012 Req'd Qty: 1.00 *1* Reference: Approvals: **Process Plan:** Date: Tooling: Date: SPC (Y/N): Sequence ID/ Operation Set Up/ Work Center ID Description **Run Hours** 130 QC7-Inspect Chemical Conversion Coat 0.00 *130* 0.00 Memo Quality Control

Skidtubes

Tool# Plan Reject Reject Accept Insp. Code Qty Number Stamp **Qty**

Stop

Setup Start

Run

Skidtubes

Memo 0.00

1-Open Ø0.313" and 0.375" crossbolt spacer holes as per Dwg D3274

2-Deburr crossbolt spacer holes as per Dwg D3274 and blow out chips from inside the tube

0.00

3-Bond web in place as per Dwg D3274 & QSI 015. A/RSikaflex-291 /30 M 122 /30

Sikaflex expire date: 13 - 4 - 12 Start: 12/07/17, Time: 9:00 Finish: 12/04/25 Time: 176

(Adhere for 12 hours)

De 12/57/17

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June-15-12 1:32:04 PM

Required Date: 29/06/2012

Item ID:

D206-642-541

Accept

N900040100

Setup Start

Revision ID: Item Name:

Replacement Skidtube

Start Date:

15/06/2012

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _ ____

Tooling:

Date:

Run

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID

160

QC5- Inspect part completeness to step on W/O

Set Up/ Run Hours Tool ID

Tool# Plan

Accept Code

Reject Qty

Reject Number

Insp. Stamp

160

Quality Control

Memo

0.00

0.00

170

170 Skidtubes

Skidtubes

Skidtubes

Operation

Description

Memo

0.00

0.00

1-Bend AFT end of tube using bend prog. D3274 AFT as per dwg D3274. Install drop pins in crossbolt spacer holes to maintain web position.

2- DRILL PILOT HOLES FOR WEARPLATES USING D3274-1T2 OPEN HOLES TO .297". Deburr

3-DRILL TOE PIN HOLE .640" DIA AS PER DWG USING DT8935 FWD END OF TUBE

DEBURR INSIDE OF HOLE AS NECESSARY (DO NOT ENLARGE HOLES)

REMOVE ANY FOREIGN OBJECTS INSIDE OF TUBES

4- Countersink crossbolt spacer holes as per Dwg D3274

5- prepare for welding

De 12/07/19

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W/O:			N	ORK ORDER CHA	NGES				and the state of t
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	WORK ORDER NON-CONFORMANCE (NCR)									
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Page 6

June-15-12 1:32:04 PM Item ID: D206-642-541 Accept *N900040100* Setup 'Start Revision ID: Item Name: Replacement Skidtube 15/06/2012 Start Qty: 1.00 **Start Date:** Cust Item ID: Required Date: 29/06/2012 Req'd Qty: 1.00 **Customer:** Reference: Run **Approvals:** Process Plan: Date: Tooling: Stop SPC (Y/N): Date: Date: Sequence ID/ **Operation** Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. **Work Center ID** Description **Run Hours** Code Qty Otv Number Stamp 180 QC5- Inspect part completeness to step on W/O 0.00 *180* OC 0.00 Memo ·Quality Control 190 0.00 Skidtubes Skidtubes 0.00 Memo ≸Skidtubes 1-Insert D2649 & D3275-1 crossbolt spacers. Weld as per QSI 004 and Dwg D3274. Remember to back drill each hole before welding the other side. Use aluminum rod A/RAluminum Rod M/2235 3-Grind cross bolt welds flush as per Dwg D3274. 4-Counterbore 5/16" x 0.750" deep as per Dwg D3274 and deburr.

W/O:	85822	WORK ORDER CHANGES									
DATE	STEP PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No: <u>DZ06- 642-54</u>	PAR #:	Fault Category:	LANDY (YEAR/SKIDTUBS	NCR: Yes No	DQA:	Date: 14/00/17
Resolution: _	Occatable	Disposition:/s	leestable	QA: N/C Closed	I: <u>\$0</u>	Date: 12/08/20

NCR: 12	1-1698.	W	ORK OR	DER NON-CONFORMANC	E (NCR)			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section B Action Description	Verification Section C	Approval Chief Eng	Approval QC Inspector	
vzbalaz	\$\$ 190,4	Found At inspection that the holes are country bores @ 0.820 to 0.830" should be @ 0.75 t.080 R.C. courts bore tool was bet necessary. Operate ERROR LOA	Chief Eng DAS 12 89 11/11	Chief Eng Accatable by for Emil Fram Chris P b DS on July 22th. 2012. Emil Attacho.	Date 12-7-27	76 16 16 17/30	1045 23 11416	7AS 16 9-8 12/07/23
								·

Linda Lacelle

From:

Chris Provencal cprovencal@dartaero.com>

Sent:

July-27-12 11:15 AM

To:

David Shepherd

Cc:

psmith@dartaero.com; 'L Lacelle'; 'Isam El-Kassis'; 'Eric Downing'; Mike Petsche

Subject:

RE: D206 skids

David,

The affected tubes are several float (-541) and regular tubes (-351). The float holes aren't counterbored and are unaffected. As the crossbolt spacers are not loaded except in bearing by the bushings, the additional length of the counterbore would have no effect on the strength of the crossbolt spacer from regular loading conditions. There would be a small reduction in buckling strength from sideways crushing loads, which doesn't represent a critical loading condition per the FAR requirements.

I will accept these tubes based on that rational. This email is an FYI in case you have an objection.

-Chris

From: Eric Downing [mailto:edowning@dartaero.com]

Sent: Friday, July 27, 2012 8:34 AM

To: 'Provencal, Chris'

Cc: psmith@dartaero.com; 'L Lacelle'; Isam El-Kassis

Subject: D206 skids **Importance:** High

Good morning Chris

I need to see you as soon as you read this message I have found the counter bore depth on QTYX9 D206 skids are too deep. I am measuring 0.820"-0.830" and it should be at 0.75+/-0.030". I have 6 in progress and 3 already painted and assembled. What happened was that I had inspected some 206 skids and found that the counter bore was correct but I didn't know that they had changed the counter bore part way through the day and was not set up correctly so I had assumed that they were still the same depth and when I measured the first one today like I do always the depth was not correct at all.

I need to know if this will be acceptable or that we need to rework all the skids.

Thanks
Eric Downing
QC Corrdinator
Dart Aerospace LTD

											DQA:	Date	
NCR:	Yes	/ No				WORK ORDER NON-C		VFOR	MANCE / UP	DATE			
											QA Closed:	Date	
Work Ord	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part f	۔ ِ No.					Rework Scrap Use-as-is		Thern	Skid-tube Machining noforming	Crosstube Small Fab Finishing	-4	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR I	NO				·	Work Order Update]		Large Fab	Composite	j	Supplier	لـا لـ
Root					Descri	ption of work order update		nitial	Ac	tion	Sign &		
Cause		Date	Step	Qty	C	or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
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Equip/Tooling													
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Material	П	:											
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		Bending				Bend		Grain			Ovalized		Pressure/Forced
		Centre No	ot Concer	ntric to C)/S	BOM/Route		Hardwa	ire		Over/Under	tolerance	Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	ion Incomplete		Part Incorre	ct	Weld
		Crushed/0	Crimped.			Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
ĺ		Cuffs				Contamination		Mainte	enance		Part Moved		
		Heat Trea	t			Countersink		Mislabe	eled		Positioned V	Vrong	
		Inspection	n Strip in	Tube		Cut Too Short		Misread	d	[Power Loss/	Surge	Other
		Ripples in	Bend			Drill Holes		Offset					
		Torque W	aves in E	xtrusion		Drawing		Out of (Calibration				

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FÔRMS/Quality Assurance\approved QA/NCRWO Rev G

0.00

0.00

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch

1 76 12730

220

220
HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

Dart Aer	ospa	ce l	Ltd
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Dart Aeı	rospace	Ltd								,
W/O:			W	ORK ORDER CH	ANGES				<u> </u>	•
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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A/RSikaflex-291 122130

Sikaflex expire date:

Dart Aerospace	Ltd
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W/O:			WO	RK ORDER CHANG	ES			· · · · · · · · · · · · · · · · · · ·	
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Page 9

June-15-12 1:32:04 PM

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542-541

15/06/2012

Accept

N900040100

Setup Start

Revision ID:

Start Date:

Item Name:

Required Date: 29/06/2012

Replacement Skidtube

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID Operation **Description**

Set Up/ **Run Hours** Tool ID Tool # Plan

Accept Code Qty

Reject Qty

Reject Insp. Number Stamp

260

Memo

260

Quality Control

Inspect Nut Plate & Inserts

QC5- Inspect part completeness to step on W/O

270

970 HandFinish

HAND FINISHING RESOURCE #1

Memo

0.00

0.00

Hand Finishing

1-Install wearpads & gaskets as per Dwg D3274.

2-Install ring as per Dwg D3274 A/RSikaflex-291 (22130)

Sikaflex expire date:

3-Inspect for foreign objects as per QSI 024

4-Spray inside of tube on both sides of web with LPS-3

A/R

5-Install Aft Cap and seal with Sikaflex. Clean excess adhesive.

A/RSikaflex-291 | 122136

Sikaflex expire date:

Vroegon 114 596

								
		WO	RK ORDER CHANGE	ES				
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Quality Control

MCJ12108114

Dart Aerospa	ace Ltd
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W/O:			W	ORK ORDER CHANGE	S				
DATE	STEP	PROC	EDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:		We	ORK OR	DER NON-CONFORMAI	NCE (NO	R)	-		
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Picklist Print

June-15-12 1:32:07 PM

Work Order ID: 85822

85822

Parent Item:

D206-642-541

D206-642-541

Parent Item Name: Replacement Skidtube

Start Date: 15/06/2012

Required Date: 29/06/2012

Start Oty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:B05.09.23Revised per D206-642 Rev. JKJ/JLM

IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC IPP Rev:F 08-06-02 add comment DD verified by:EC IPP Rev:G 08-10-09 revise details DD verified by EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2600-1-190 *D2600-1-190 Extrusion Round 3" 206	-190*	Manufactured	No			110	Each	106.0000	i **	1	P	12-7	7-12
				<u>Location</u> HALL LG	69622	Loc	Oty 45 45 61	<u>Loc Code</u>			- - -		
D3285-1 *D3285-1* Cap	ŧ	Manufactured	No		76912	110	61 Each	42.0000	**	il		BE126	712
					52511 52647	Loc	Oty 42 1 41	Loc Code			_		
D3282-041 *D3282-04 Float Web (206L/407)	11*	Manufactured	No			150	Each	9.0000	1 **	1 De 12	2/07/	17	
				Location LG	82651	<u>Loc (</u>	Qty 9 9	Loc Code		(P)	_		

W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PR	OCEDURE CHAP	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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			· · · · · · · · · · · · · · · · · · ·					<u>.</u>	
			•						
Part No	:	PAR #:	Fault Cateç	jory:	NCR: Yes	No DQ	A:	_ Date: _	
	R	esolution:	Disposition	n: <u>'</u>	QA: N/C CI	osed:		_ Date: _	
NCR:	т.	,	WORK ORDE	R NON-CONFORMA	NCE (NCR	1)		,	
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector
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Work Order ID: 85822

Parent Item:

D206-642-541

Parent Item Name: Replacement Skidtube

85822 *D206-642-541*

Start Date: 15/06/2012

Required Date: 29/06/2012

Start Oty: 1.00

12

Required Oty: 1.00

D2649

Cross Bolt Spacer

Manufactured

Manufactured

No

No

190

Each

181.0000

12

**

Location Loc Qty Loc Code LG 38 77574 2 79502 8 79503 17 79564 4 79565 7 LG001 143 65317 68224 2 68507 11 71355 2 72704 2 72841 11 73390 8 73857 21 73858 53 73859 73860 78020 6 78583 2 79566 16 190 Each 105.0000 12 12 **

D3275-1

Crossbolt Spacer

Location Loc Qty Loc Code LG 40 85418 40 LG002 65 66930

64

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83264

Page 2

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STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	_ Date: _	
Res	solution:	Dispositio	n:	_ QA: N/C (Closed:	<u> </u>	Date: _	
	,	WORK ORD	ER NON-CONFORM	ANCE (NC	R)			
STEP	Description of NC	8 1A1 - 1		Section B V				Approval
J.L.	Section A	Chief Eng	Chief Eng			ion C	Chief Eng	QC Inspector
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		Page :	STEP PAR #: Fault Cate Resolution: Dispositio WORK ORD STEP Description of NC Section A Initial Chief Eng	STEP PAR #: Fault Category: Resolution: Disposition: WORK ORDER NON-CONFORM STEP Description of NC	PAR #: Fault Category: NCR: Yes Resolution: Disposition: QA: N/C C WORK ORDER NON-CONFORMANCE (NC STEP Description of NC Section A	STEP PAR #: Fault Category: NCR: Yes No DQ Resolution: Disposition: QA: N/C Closed: WORK ORDER NON-CONFORMANCE (NCR) STEP Description of NC Section A Chief Eng Action Description Chief Eng Ch	STEP PAR #: Fault Category: NCR: Yes No DQA: Resolution: Disposition: QA: N/C Closed: WORK ORDER NON-CONFORMANCE (NCR) STEP Description of NC	STEP PROCEDURE CHANGE By Date Qty Approval Chief Eng Prod Mgr PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: Date: STEP Description of NC Section A Date: Date: Chief Eng Action Description Sign & Date Chief Eng Action Description Sign & Date Chief Eng Chief Eng

June-15-12 1:32:08 PM

Work Order ID: 85822

CR3212-4-03

D206-642-541

Parent Item Name: Replacement Skidtube

85822

D206-642-541

Start Date: 15/06/2012

Required Date: 29/06/2012

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-03

Parent Item:

Purchased

Purchased

No

250

250

Each

Loc Qty

340

340

908

906

2

Each

1.248.000

Loc Code

31.0000

Loc Code

**

Cherry Rivet

D3415-041

Nut Plate

CCR264SS3-3

CCR264SS3-3

Cherry Rivet

Manufactured

No

Location

FP002

ST331

ST042

Location

82151

114859

110139

119017

31 250 Each

Loc Qty

31

320.0000

**

**

2

Location ST331

113973 117849 🗸

119017

Loc Qty 320 2 77

241

Loc Code

Dart Aerospace Li	td
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Dart Aei	Ospace	Lia								*
W/O:			WO	RK ORDER CHA	ANGES					
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector	
										منتمت .
Part No		PAR #:					•			
Resolution:			Disposition	: <u>'</u>	QA:	N/C Clo	sed:		Date: _	
NCR:			WORK ORDE	R NON-CONFO	RMANCE	(NCR)			· · · · · · · · · · · · · · · · · · ·	1
DATE	STED	Description of NC	Corrective Action Section			Verifica		ation	Approval	Approval
DATE	SIEF	STEP Section A	Initial Chief Eng	Action Descript Chief Eng	tion	Sign & Date	Secti	on C	Chief Eng	QC Inspector
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Work Order ID: 85822

D206-642-541

Parent Item Name: Replacement Skidtube

85822 *D206-642-541*

Start Date: 15/06/2012

Start Qty: 1.00

**

Required Date: 29/06/2012

Required Qty: 1.00

ALS4-1032-130

Parent Item:

Purchased

No

250

Each

1,737.000

78 78

79

12/07/31

*AI	S4-1	():	37	'-1	30)×
Insert						

Locatio	<u>.</u>	L	oc Qty	Loc Code		
ST280	122474		205			
	119084		116			
	120671		89			
ST281			44			
	120807		36			
	120837		8			
ST282			1488			
	121269		1488			
		270	Each	5,0000	1	1

D3536-15

Manufactured

No

Manufactured

36

3

5.0000

Loc Code

39.0000

**

**

D3536-15 Gasket

Locatio	_	Loc Oty				
FP002	85604~		5			
	73318		4			
	81343		1			
		270	Each			

D3536-23

Location Loc Qty Loc Code FP 36

FP002

74510

85295

12/07/31

Duit Aci	ospace	LW						_	
W/O:			WO	RK ORDER CHANGI	ES				
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval - Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	_ Date: _	
Resolution:			Disposition	: <u>'</u>	_ QA: N/C CI	osed:		Date: _	·
NCR:			VORK ORDE	R NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC	Corrective Action Section B			Verific	Verification	Approval	Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sect	ion C	Chief Eng	QC Inspector
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Work Order ID: 85822 *85822*

Parent Item:

D3536-35

D3536-35

D3536-39

D3535-15

D206-642-541

D206-642-541

Parent Item Name: Replacement Skidtube

Start Date: 15/06/2012

Required Date: 29/06/2012

Start Qty: 1.00

**

**

**

**

Required Oty: 1.00

270 Each

Manufactured

15

4

Each

15.0000

Page 5

Manufactured No Location Loc Qty FP002 81340 82065 270

9.0000

Loc Code

D3536-39 Gasket

> Manufactured No

Manufactured

Location Loc Qty Loc Code FP 9 9 270

Each 21.0000

12/07/31

D3535-15

Wearshoe

No

Location

FP001 81354 85291

21 2 19 2.70 Each

Loc Qty

Loc Code

28.0000

12/07/31

D3535-35

Wearshoe

D3535-35

Location	Loc Qty	Loc Code
FP001	28	
67598	1	
70815	1	
78873	13	
79849	1	
83638	12	

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Page 5

W/O:			WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No:		PAR #:	Fault Cat	degory:	NCR: Yes	No DQ	QA: Date:				
	Resolution:										
NCR:			ORK ORI	DER NON-CONFORMA	NCE (NCF	₹)					
DATE	STEP	Déscription of NC		Corrective Action Section		Verific		Approval	Approval		
DAIL	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date		on C	Chief Eng	QC Inspector		
1.											
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Work Order ID: 85822	*8	5822*			-				· · · · · · · · · · · · · · · · · · ·
Parent Item: D206-642-541		206-642-54	11*						
Parent Item Name: Replacement Skidtube	1 // ()()~()4/~,)4			Start Date: 15/06/2012 Start Qty: 1.00			Required Date: 29/06/2012 Required Qty: 1.00		
D3535-39 Manufactured	No		270	Each	21.0000	1	1	_	
D3535-39 Wearshoe						**			12/07/3
		Location	Lo	c Qty	Loc Code				
	~	FP001 69759		21					
		74513		2				_	
D3535-23 Manufactured	No	81359	270	18 Each	8.0000				
D3535-23 Wearshoe			2,0	Lacii	8.0000	**		QP)	12/07/31
		Location FP001 \$256 \(\sigma \) 83375	Loc	8	Loc Code			_	,
D3537-3 Manufactured	No	633/3	270	8 Each	4.0000	ı	1	~	
D3537-3 Wearpad						**			12/07/31
		Location	Loc	: Qty	Loc Code			\cup	•
		FP002 85481~ 78836		4				·····	
		81363		3				_ _	
D3537-1 Manufactured *\ightarrow{\text{N}}3537-1* Wearpad	No .		270	Each	71.0000	9 **	9		12/07/3
		Location FP002 85458	Loc	• Qtv 71	Loc Code		1		, ,
•		81362		6				_	
		83254 83255		3				_	
		83256		55				-	
		84091 86238~		6			8-	_	

											
W/O:			WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No: PA		PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	A:	_ Date: _			
	Resolution:			on: '	_ QA: N/C Cld	sed:		Date:			
NCR:			WORK OR	DER NON-CONFORMA	NCE (NCR)					
DATE	STEP	Description of NC	Corrective Action Section			Verific		Approval	Approval		
DAIL	U.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector		
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Work Order ID: 85822 Parent Item: D206-642-541				5822*						î	
			D206-642-541							•	
Parent Item Name: Replacement Skidtube							S	start Date: 1	5/06/2012	Required Da	te: 29/06/2012
								Start Qty: 1	.00	Required Q	ty: 1.00
AN960C10L	NAS1149C0332	Purchased	No		270	Each	21.0000	80	80		
± 4 4 1 0 0 0	··· K			122063~							
*AN960 washer	C101 *			121000				**	\$0		12/07/31
				Location	<u>1</u>	oc Qty	Loc Code				•
				ST		21	•			_	
ANIOCOCALC	1			107534		21			-	<u> </u>	
AN960C416	NAS1149C0463.	Purchased	No		270	Each	0.0000	1	1		
AN960	C416			119097~		₹		**)		12/07/3
D3672-I		Manufactured	No	. 2	270	Each	1,422.000) 2	2		1 1
D3672	-1		is				-, -=-,	**	2		12/04/3
				<u>Location</u>	L	oc Qty	Loc Code				i
•				ST060		1422					
				72229		4				_	
				76277		13				_	
				80369		395				_	
				83608 85222		500 510				_	
AN3C4A		Purchased	No		270	Each	955.0000	80	80	_	•
*AN3C4	L Δ *							**			10/07/6
BOLT									80	<u> </u>	12/07/31
				Location	<u>L</u>	oc Qty	Loc Code		•		
				ST350		955					
				120187		31					
				120521		28					
•				120769		38					
				121205		842				_	
				121556	/	16				_	
				122151							
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W/O:			WC	ORK ORDER CHANGES	3	· · · · · · · · · · · · · · · · · · ·			*
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No: PAR #:		Fault Cate	NCR: Yes	CR: Yes No DQA: Date:					
Resolution:			Dispositio	n: <u>'</u>	QA: N/C CI	A: N/C Closed: Date: _			
NCR:			WORK ORD	ER NON-CONFORMAN	CE (NCR	l)			
DATE	STEP	Description of NC Section A		Corrective Action Section			cation	Approval Chief Eng	Approval QC Inspector
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June-15-12 1:32:08 PM									Page 8
Work Order ID: 85822		*2	5822*						· · · · · · · · · · · · · · · · · · ·
Parent Item: D206-642-541			206-642-54	11*					
Parent Item Name: Replacement Skie	dtube	,	/ ()()-()4/) <u>/</u>	• 1		Start Date: Start Qty:	15/06/2012 1.00		Date: 29/06/2012 Qty: 1.00
AN4C5A	Purchased	No		270 Ea	ach 181.00	1 000	1		
AN4C5A						**			12/07/81
			Location	Loc Qty	Loc Co	<u>de</u>			
			ST355	181 135					
			119017	46				_	
D2646	Manufactured	No		270 Ea	ich 54.000	00 1	1		
D2646 Aft Cap						**			12/07/81
			Location	Loc Qty	Loc Co	<u>de</u>			
			FP002 85443V	54				_	
			62678 68280	5				_	
			70945	1				_	
			71070	2				_	
			73294	1					
			73825 78018	2				_	
			78018 79562	5				_	
			81974	32				_	
D3413-1	Manufactured	No		270 Ea	ch 55.000	0 1	1	_	
D3413-1						**	1	3	12/07/31
·			Location	Loc Qty	Loc Coo	<u>le</u>			
			ST420	4					
			79233	4					
			ST464	51				_	
			80224 83307	4				_	
			83867	27 20				_	
			87253/	20				_	
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W/O:			W	ORK ORDER CHANGE	ES									
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	QA: Date:							
	R	esolution:	Dispositio	n: <u>'</u>	QA: N/C Cld	sed:		Date: _						
NCR:			WORK ORDER NON-CONFORMANCE (NCR) Corrective Action Section B											
DATE	STEP	Description of NC	Description of NC Corrective Action			Verific	ation	Approval	Approvai					
DAIL	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector					
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ENGINEERING



DESIG	CP	DRAWN BY	DART AEROSPACE USA, INC.
CHEC	KED A	APPROVED 1	DRAWING NO. REV. D
	4	#	D3274 SHEET 1 OF 4
DATE			TITLE SCALE
06.1	2.19		SKIDTUBE ASSEMBLY NTS
Α		04.03.15	NEW ISSUE
В		04.08.09	, MOVE SADDLE HOLE: 42.14 WAS 42.76
С		05.03.16	ADD -043; NEW INSERTS
D		06.12.19	NEW INSERTS, SS WEARSHOE + GASKET

Qty -041	-043	Part Number	Description
	-043		Description
X		D3274-041	SKIDTUBE ASSEMBLY
	Х	D3274-043	SKIDTUBE ASSEMBLY
1	1	D2600-1-240	EXTRUSION
1	1	D2646	AFT CAP
12	12	D2649	CROSS BOLT SPACER
12	37	D3275-1	CROSS BOLT SPACER
1	1	D3282-041	FLOAT WEB
1	1	D3285-1	CAP
1	1	D3413-1	RING
1	1	D3415-041	NUT PLATE
1	1	D3535-15	WEARSHOE
1	1	D3535-23	WEARSHOE
1	1	D3535-35	WEARSHOE
1	1	D3535-39	WEARSHOE
1	1	D3536-15	GASKET
1	1	D3536-23	GASKET
1	1	D3536-35	GASKET
1	1	D3536-39	GASKET
9	9	D3537-1	WEARPAD
1	1	D3537-3	WEARPAD
78	78	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130
80	80	AN3C4A	BOLT
1	1	AN4C5A	BOLT
1	1	AN960C416	WASHER
80	80	AN960C10L	WASHER
2	2	CCR264SS3-3	RIVET
2	2	CR3212-4-03	RIVET
2	2	NAS1515H3L	WASHER

GENERAL NOTES:

- 1. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 2. DAMAGE TOLERANCE ON FWD BEND:

MAGE TOLERANCE ON FWD BEND:
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 7 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.

- 3. ALL HOLES DRILLED ON CENTERLINES.
- 4. BOND D3282-041 FLOAT WEB INTO D3274-1/-3 OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291 ADHESIVE PER DART QSI 015. ENSURE HOLES LINE-UP.
- 5. WELDING TO BE DONE PER DART QSI 004.
- 6. FINISH: ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1
 - POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
- 7. DRILL Ø0.297 HOLES FOR ALS7-1032-130 INSERTS USING DT3274-1T2 BEFORE FINISH. INSTALL ALS7-1032-130 INSERTS AFTER FINISH. SEAL WEARSHOE BOLTS WITH SIKAFLEX -241/-291.

41 Tr.

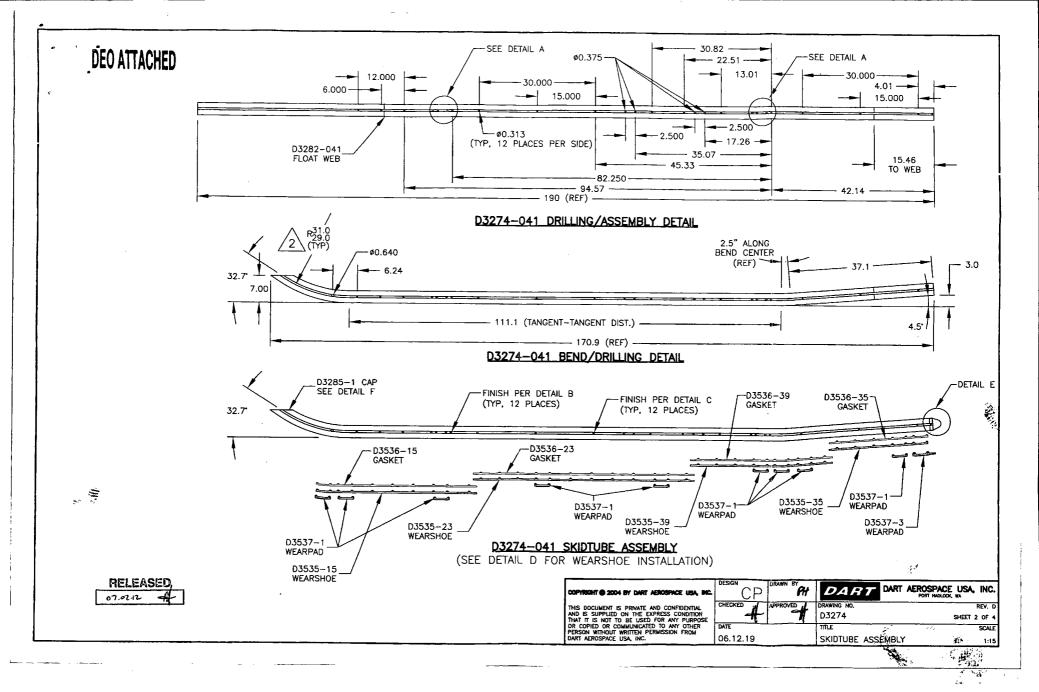
8. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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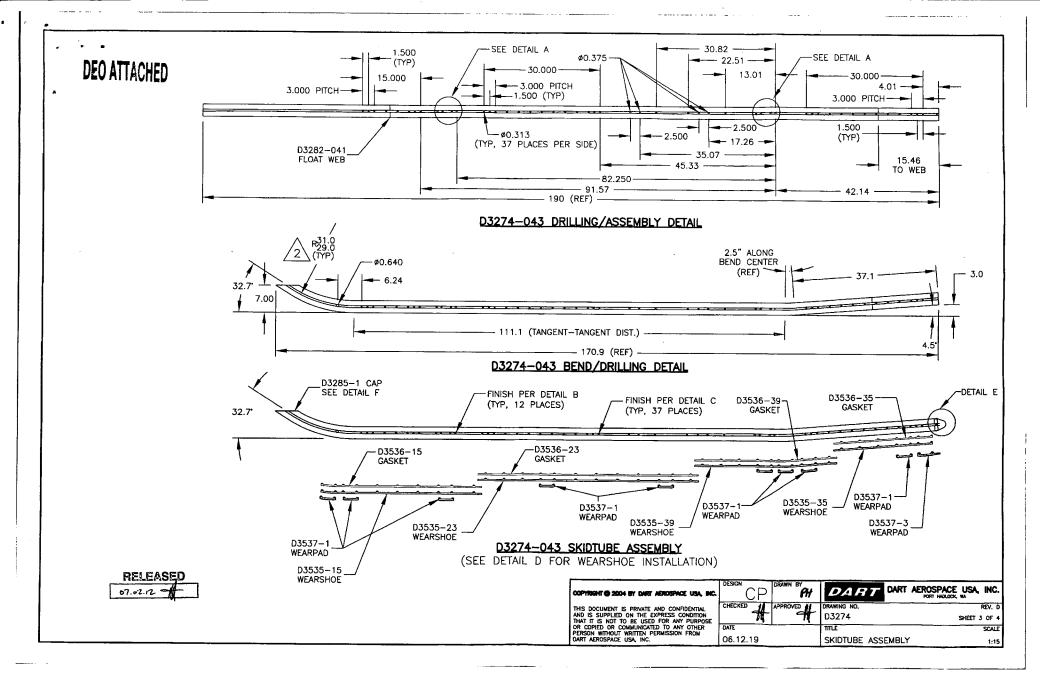
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DATE	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector
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1							y		
2						ત		u _n ,	
Part No		PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	Date:	j.
Resolution:			Disposition	QA: N/C C	closed:	*	Date:		
			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC			on B	Verifi	cation	Approval	- Approval
·	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	ion C	Chief Eng	QC inspector
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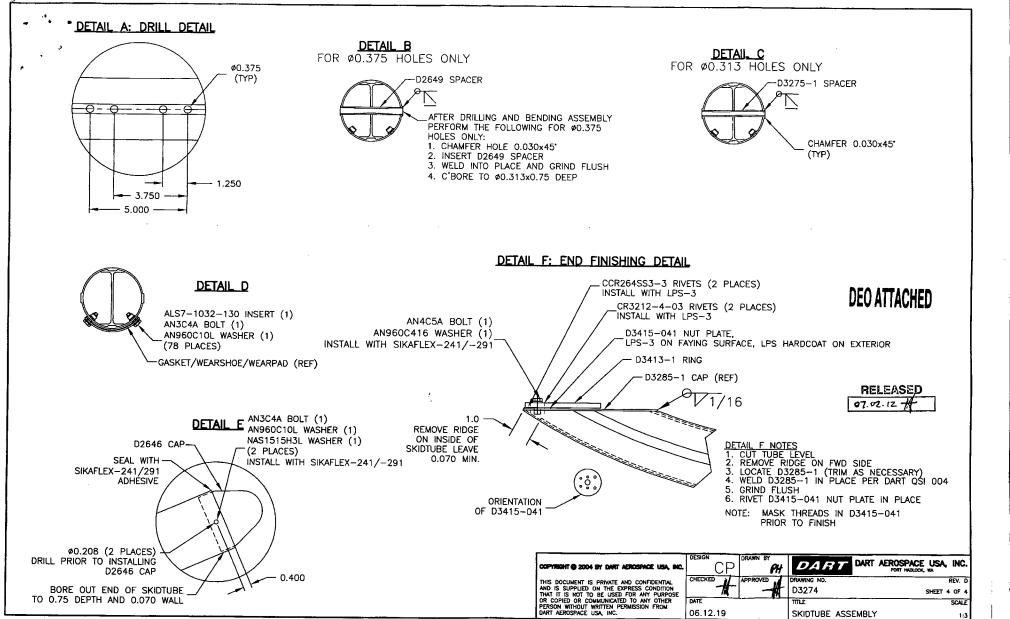


W/O:			W	ORK ORDER CHANG	ES			••••••••••••••••••••••••••••••••••••••	<u> </u>
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								- -	
Part No	:	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQ	A :	_ Date: _	
	R	esolution:	Dispositi	on: '	QA: N/C (losed:		Date: _	
NCR:			WORK ORE	DER NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC		ion B	Verifi	cation	Approval	Approval	
JAIL	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		tion C	Chief Eng	QC Inspector
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W/O:			WO	RK ORDER CHANG	GES				<u> </u>	*
DATE	STEP	PRO	OCEDURE CHA	IGE	Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	jory:	NCR: Y	es No	DQ/	A:	_ Date: _	
	Res	solution:	Disposition): <u>`</u>	QA: N/C	Clos	ed:		Date: _	
NCR:			WORK ORDE	ER NON-CONFORM	IANCE (N	CR)	* .			
DATE	STEP	Description of NC			ction B	ın &	Verific		Approval	Approval
		Section A	Chief Eng	Action Description Chief Eng		ate	Section	on C	Chief Eng	QC Inspector
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DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No) :	PAR #:	Fault Cate	gory:	NCR: Y	es No C	QA:	Date: _	
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NCR:		,	WORK ORDI	ER NON-CONFORM	ANCE (N	CR)			
DATE	STEP	Description of NC	Corrective Action Initial Action Descript		tion B		ification	Approval	Approval
		Section A	Chief Eng	Chief Eng	D	ate	ection C	Chief Eng	QC Inspector
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ÐRÁWING NO.	TITLE		REV. D	DART AEROSPACE USA	INC D.E.O. NO.		SHEET NO.	SCALE
D3274	SKIDTUBE A	SSEMBLY		ENGINEERING ORDE		\circ	SHEET 1 OF 1	NTS
DRAWN		CHECKED	<u>k</u>	MFG. APPR.	APPROVED	MA	DE APPR.	
DATE 09	.06.17 t	DATE 09.06	23	DATE 09/06/23	DATE {	9/06/23	DATE 09.06.23	

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF SKIDTUBE.

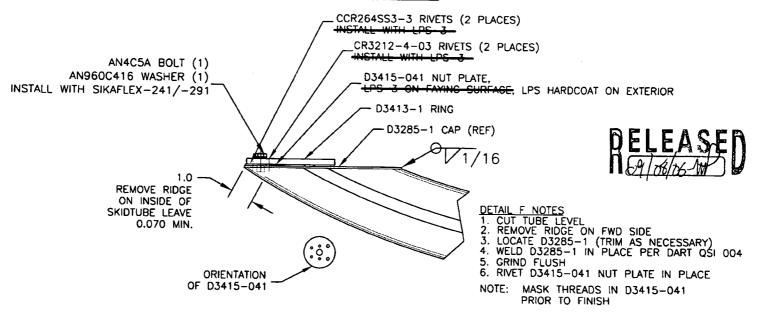
AMEND NOTE 8: "SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES 'LPS 3' AFTER FINISH AND INSTALLATION OF INSERTS.

COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES 'LPS PROCYON' AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER."

AMEND DETAIL F AS SHOWN:

25227

DETAIL F: END FINISHING DETAIL



M/O: DATE STEP PROCEDURE CHANGE By Date Oty Chief Eng/Prod Mgr Part No: PAR #: Pault Category: NCR: Resolution: Disposition: Orrective Action Section A Description of NC Section A Description Chief Eng Action Description Chief Eng Action Description Sign & Date Chief Eng		•								♦.
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: NCR: Yes No DQA: Date: NCR: NCR: Disposition: QA: N/C Closed: Date: NCR:	N/O:	Ì		WC	ORK ORDER CHANG	GES				
Part No:PAR #:Fault Category:NCR: Yes No DQA:Date:	DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Chief Eng /	Approval QC Inspector
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC	*		**							
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC										
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: _ Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A portion Content of Content of Content or Content		,								
Resolution:							ř			
Resolution:										
NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Section B Section C	Part No:	•	PAR #:	Fault Cate	gory:	NCR: Ye	s No DQ	A:	Date:	<u> </u>
DATE STEP Description of NC Section A Section B Section B Verification Approval Chief English Corrective Action Description Sign & Section C Chief English Control of NC Section B Control of NC Sec	Res									
DATE STEP Description of NC Initial Action Description Sign & Section C Chief Eng	NCR:			WORK ORD	ER NON-CONFORM	ANCE (NO	CR)			
Section A Initial Action Description Sign & Section C Chief Eng	DATE	STEP					Verifi	cation	Approval	Approval
		O.L.	Section A					tion C	Chief Eng	QC Inspector
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										r
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NO. 297

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name:	Barday Elliott	· ·
Job #:	80951	-
Part #:	1206-642-151	_
Description	n: Skidtulse	
Welding P	rocess: Tig[/] Mig[]	
Base mater	riel: <u>Alum</u>	
Current: A	AC[DC[]	

TEST REQUIREMENTS AND RESULTS

Visual:	pass[/] fail[]
Incomplete Penetration:	pass[fail[]
Incomplete Fusion:	pass[] fail[]
Cracks:	pass[/] fail[]
Overlap (cold lap)	pass[// fail[]
Undercut:	pass[/] fail[]
Pin holes:	pass[1] fail[]
Porosity (surface):	pass[/] fail[]
Coloration:	pass[v] fail[]
Burn through:	pass[// fail[]
Qualifier Man Mand	Date of Test Coupon 12.06.13
O lalk	4 2
Welder Morcla Chill	Date of Test Coupon_/2,06.13

The above named individual is qualified in accordance with AWS D17.1.2001 to weld